

Docket No. DP-309961

ABSTRACT

A filler metal including not more than about 0.1% C, not more than about 1.0% Si; not more than about 0.8% Mn; from about 10.5% to about 13.0% Cr; from about 0.65% to about 4.0% Ni; from about 10(% C) to about 1.5% Ti; not more than about 0.5% each of N, S, P, Mo, Nb, Cu, V, or Co; and balance essentially Fe, wherein a weld test pad of the filler metal contains a microstructure comprising martensite. A method of attaching together two components using a modified filler metal which forms a weld containing an amount of martensite sufficient to increase the volume of the weld thereby at least partially offsetting shrinkage of the weld upon cooling, and articles produced thereby.